	Application No.	Applicant(s)
	09/747,932	YOO ET AL.
Notice of Allowability	Examiner	Art Unit
	Prasad R Akkapeddi	2871
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in t 5) or other appropriate commun RIGHTS. This application is su	his application. If not included ication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $07/12/2004$.		
2. 🔀 The allowed claim(s) is/are <u>1-17</u> .		
3. The drawings filed on 27 December 2000 are accepted b	y the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Let a copie of the priority documents have 2. Certified copies of the certified copies of the priority documents have 1. Let a copie of the priority documen	ve been received. ve been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file a MENT of this application.	reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subin INFORMAL PATENT APPLICATION (PTO-152) which gives		
6. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.	
(a) ☐ including changes required by the Notice of Draftspe	rson's Patent Drawing Review (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or ir	the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
7. DEPOSIT OF and/or INFORMATION about the dep- attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB. Paper No./Mail Date 07/12/2004	6. Interview Sun Paper No./M /08), 7. Examiner's A	ail Date mendment/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's S 9. ☐ Other	tatement of Reasons for Allowance

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DETAILED ACTION

Response to Arguments

Applicant's arguments, see arguments and translation documents, filed
 07/12/2004, with respect to claims 1-17 have been fully considered and are persuasive.
 The rejection of 02/11/2004 has been withdrawn.

Allowable Subject Matter

- Claims 1-17 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

A search of the prior art did not disclose a liquid crystal display device comprising a combination of structural elements, more specifically:

- (a) The first orientation film includes a ferroelectric liquid crystal polymer, and a nematic liquid crystal layer between the first and second substrates.
- (b) Forming a first orientation film having a ferroelectric liquid crystal polymer on the first electrode, and forming a nematic liquid crystal layer between the first and second substrates.

The closest prior art by Yamamoto et al. (U.S.Patent No. 5,444,651), discloses a memory device having a liquid crystal material (53), alignment (orientation) films (56, 56') on the first and second electrodes. Yamamoto, discloses ferroelectric polymeric liquid crystal (col. 13, line 40). However, the ferroelectric polymeric liquid crystal disclosed by Yamamoto is the liquid crystal material itself (53) and not the alignment films (56. 56'). The alignment films as disclosed by Yamamoto are formed by polyimide coatings (col. 8, lines 55-58).

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Hence, Yamamoto does not teach that the alignment film (orientation film) includes a ferroelectric liquid crystal polymer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prasad R Akkapeddi whose telephone number is 571-272-2285. The examiner can normally be reached on 7:00AM to 5:30PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Prasad R Akkapeddi, Ph.D

Examiner

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